Wisniewska, A. and Subczynski, W.K.
Effects of polar carotenoids on the shape of the hydrophobic barrier of phospholipid bilayers (1368) 235
Wu, C.-W., see Liu, S.-I. (1368) 256
Wu, S.-N., see Liu, S.-I. (1368) 256

Yamamoto, K., see Shinohara, Y. (1368) 129
Yamazaki, N., see Shinohara, Y. (1368) 129
Young, J.E., see Albert, A.D. (1368) 52

Zuckermann, M.J., see Pink, D.A. (1368) 289
Zuidam, N.J. and Barenholz, Y.
Electrostatic and structural properties of complexes involving plasmid DNA and cationic lipids commonly used for gene delivery (1368) 115

ELSEVIER

Biomembranes

Vol. 1368, 1998

BIOCHIMICA ET BIOPHYSICA ACTA
BBA

Cumulative Contents

Information for Contributors *vii*

Regular papers

Zinc uptake into fibroblasts is inhibited by probenecid
C.-Y. Chang, S.J. Muga and A. Grider (USA) 1

Complexes between porin, hexokinase, mitochondrial creatine kinase and adenylate translocator display properties of the permeability transition pore. Implication for regulation of permeability transition by the kinases
G. Beutner, A. Rück, B. Riede and D. Brdiczka (Germany) 7

Probing the water permeability of ROMK1 and amphotericin B channels using *Xenopus* oocytes
R.Z. Sabirov, S. Morishima and Y. Okada (Japan) 19

Video imaging analysis of the plasma membrane permeabilizing effects of *Bacillus thuringiensis* insecticidal toxins in Sf9 cells
M. Villalon, V. Vachon, R. Brousseau, J.-L. Schwartz and R. Laprade (Canada) 27

Translocation of alkali metal cations by lipophilic cyclodextrin derivatives through black lipid membranes
K. Kobayashi, S. Mittler-Neher, J. Spinke, G. Wenz and W. Knoll (Germany, Japan) 35

Catalytic hydrogenation of polyunsaturated biological membranes: effects on membrane fatty acid composition and physical properties
J.A. Logue, L. Vigh, F. Joó and A.R. Cossins (UK, Hungary) 41

Phospholipid fatty acyl spatial distribution in bovine rod outer segment disk membranes
A.D. Albert, J.E. Young and Z. Paw (USA) 52

Na, K-ATPase pump in activated human lymphocytes: on the mechanisms of rapid and long-term increase in K influxes during the initiation of phytohemagglutinin-induced proliferation
I.I. Marakhova, A.A. Vereninov, F.V. Toropova and T.A. Vinogradova (Russian Federation) 61

Immunodetection of a type III sodium-dependent phosphate cotransporter in tissues and OK cells
C.J.C. Boyer, A.D. Baines, É. Beaulieu and R. Béliveau (Canada) 73

Chloride- and pH-dependent proton transport by BR mutant D85N
C. Ganea, J. Tittor, E. Bamberg and D. Oesterhelt (Germany, Romania) 84

Adjuvant lipopeptide interaction with model membranes
J. Gonzalez-Christen, I. Vergne, R. Süßmuth, S. Sidobre, M. Prats, J.F. Tocanne and G. Lanéelle (France, Germany) 97

Kinetic characterization of a membrane-specific ATPase from rat osseous plate and its possible significance on endochondral ossification
J.M. Pizauro, M.A. Demenis, P. Ciancaglini and F.A. Leone (Brazil) 108

Electrostatic and structural properties of complexes involving plasmid DNA and cationic lipids commonly used for gene delivery
N.J. Zuidam and Y. Barenholz (Israel) 115

Quantitative determinations of the steady state transcript levels of hexokinase isozymes and glucose transporter isoforms in normal rat tissues and the malignant tumor cell line AH130
Y. Shinohara, K. Yamamoto, K. Inoo, N. Yamazaki and H. Terada (Japan) 129

Significance of the glutamic acid residues Glu_{334}, Glu_{959}, and Glu_{960} of the α subunits of *Torpedo* Na^+,K^+ pumps for transport activity and ouabain binding
L.A. Vasilets, K. Takeda, M. Kawamura and W. Schwarz (Germany, Japan, Russia) 137

The effects of chloroplast lipids on the stability of liposomes during freezing and drying
D.K. Hincha, A.E. Oliver and J.H. Crowe (Germany, USA) 150

Information for Contributors *vii*

Rapid reports

Steroid hormones partition to distinct sites in a model membrane bilayer: direct demonstration by small-angle X-Ray diffraction
G.A. Golden, R.T. Rubin and R.P. Mason (USA) 161